	Application No.	Applicant(s)	
Notice of Allowability	10/080,795	KAMME ET AL.	
	Examiner	Art Unit	
	Young J. Kim	1637	
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICE of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this a or other appropriate communication is subject	pplication. If not included on will be mailed in due course. <b>THIS</b>	
1. This communication is responsive to the Amendment received	ved on September 7, 2007.	•	
2.  The allowed claim(s) is/are <u>1,2,4-14 and 16-23</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority under a)</li></ol>	been received. been received in Application No uments have been received in this	s national stage application from the	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			
<ul> <li>5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.5 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date</li> </ul>	on's Patent Drawing Review (PTC Amendment / Comment or in the 84(c)) should be written on the draw he header according to 37 CFR 1.121	Office action of vings in the front (not the back) of I(d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F</li> </ol>			
Attachment(s)	, Dation of Informal	Detent Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<u> </u>	<ul><li>5.  Notice of Informal Patent Application</li><li>6.  Interview Summary (PTO-413),</li></ul>	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Da	Paper No./Mail Date 7.  Examiner's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  Output  Description:  Output	<ul><li>8. ☑ Examiner's Statem</li><li>9. ☐ Other</li></ul>	<ul><li>8. ⊠ Examiner's Statement of Reasons for Allowance</li><li>9. □ Other</li></ul>	
	YOUNG J. KIM PRIMARY EXAMINER	Young J. Kim Primary Examiner Art Unit: 1637	

Application/Control Number: 10/080,795

Art Unit: 1637

#### **DETAILED ACTION**

The present Office Action is responsive to the Amendment received on September 7, 2007.

## Preliminary Remark

Claims 3, 15, and 24-26 are canceled.

# Claim Rejections - 35 USC § 112

The scope of enablement rejection of claims 1, 4-14, 16, and 18-23 under 35 U.S.C. 112, first paragraph, for enabling for a method wherein Bst DNA polymerase is not involved in a reaction temperature of 80°C, while not reasonably providing enablement for said method, wherein Bst DNA polymerase is involved in a reaction temperature of 80°C, made in the Office Action mailed on April 17, 2007 is withdrawn in view of the Amendment received on September 7, 2007.

### Claim Rejections - 35 USC § 103

The rejection of claims 1, 2, 4-14, and 16-23 under 35 U.S.C. 103(a) as being unpatentable over Mack et al. (U.S. Patent No. 6,566,502 B1, issued May 20, 2003, filed June 30, 2000) in view of Bacallao et al. (U.S. Patent No. 7,186,507 B2, issued March 6, 2007, priority December 9, 1999¹), made in the Office Action mailed on April 17, 2007 is withdrawn in view of the Amendment received on September 7, 2007.

In particular, Applicants' argument regarding the unexpected result of using Bst polymerase in the second strand cDNA synthesis, as substantiated in the instant specification on page 32, Table 2 is found to be convincing.

U.S. Patent 7,186,507, is a national phase of PCT/US00/33460, filed after November 29, 2000, designating U.S. as one of the countries, and published in English. Under the amended AIPA act, the 102(e) date for such national phase

#### Examiner's Reasons for Allowance

The instant application is allowed based on Applicants' convincing argument, substantiated by the instant specification that the use of Bst DNA polymerase in a second strand cDNA synthesis yielded unexpectedly higher yield of cDNA (discussed above).

On page 32 of the instant specification, it is stated:

"Remarkably, the yield of cDNA using Bst at 65°C was three-fold higher than using E. coli DNA polymerase 1 for two hours at 16°C." (page 32, lines 8-10).

While Bacallao et al. contemplate that a plurality of DNA polymerases (including Bst DNA polymerase) could be employed for second strand cDNA synthesis, the artisans do not actually employ the Bst DNA polymerase in a second strand cDNA synthesis, and thus, the unexpected results obtained by Applicants could not have been predicted by one of ordinary skill in the art.

Therefore, Applicants' discovery of unexpected result sufficiently distinguishes the claimed invention from the prior art.

### Inquiries.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Young J. Kim whose telephone number is (571) 272-0785. The Examiner is on flex-time schedule and can best be reached from 8:30 a.m. to 4:30 p.m (M-W and F). The Examiner can also be reached via e-mail to Young.Kim@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Gary Benzion, can be reached at (571) 272-0782.

application, when issued as a patent, is entitled to an effective filing date of the application through the provisional application of, filed on December 9, 1999).

Application/Control Number: 10/080,795

Art Unit: 1637

Papers related to this application may be submitted to Art Unit 1637 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If applicant does submit a paper by FAX, the original copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office. All official documents must be sent to the Official Tech Center Fax number: (571) 273-8300. For Unofficial documents, faxes can be sent directly to the Examiner at (571) 273-0785. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Young J. Kim

Primary Examiner

Art Unit 1637 11/15/2007 YOUNG J. KIM PRIMARY EXAMINER